

Appl. No.: 10/698,502  
Amdt. Dated: June 14, 2006  
Reply to Office Action of: March 14, 2006

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Cancel claims 1-23.

24. (original) A calcium fluoride crystal producing graphite crucible for making a calcium fluoride crystal with increased far-ultraviolet transmission, said graphite crucible comprised of a graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $4 \text{ cm}^2/\text{s}$ .

25. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a Hg porosity of at least 16.7%.

26. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a Hg porosity of at least 20%.

27. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $5 \text{ cm}^2/\text{s}$ .

28. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $6 \text{ cm}^2/\text{s}$ .

29. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $7 \text{ cm}^2/\text{s}$ .

Appl. No.: 10/698,502  
Amdt. Dated: June 14, 2006  
Reply to Office Action of: March 14, 2006

30. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $8 \text{ cm}^2/\text{s}$ .

31. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $9 \text{ cm}^2/\text{s}$ .

32. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $10 \text{ cm}^2/\text{s}$ .

33. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $11 \text{ cm}^2/\text{s}$ .

34. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $12 \text{ cm}^2/\text{s}$ .

35. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $13 \text{ cm}^2/\text{s}$ .

36. (previously presented) The calcium fluoride crystal producing graphite crucible according to claim 24, said graphite having a permeability of which, measured according to the DIN 51935 Standard, is greater than  $14 \text{ cm}^2/\text{s}$ .

37. (previously presented) A graphite crucible suitable for growing monocrystals of alkali and alkaline earth metal fluorides, said crucible being comprised of a graphite

Appl. No.: 10/698,502  
Amdt. Dated: June 14, 2006  
Reply to Office Action of: March 14, 2006

having a permeability greater than  $4 \text{ cm}^2/\text{s}$  when measured according to DIN Standard 51935

38. (previously presented) The graphite crucible according to claim 37, wherein the graphite has a permeability greater than  $10 \text{ cm}^2/\text{s}$  when measured according to DIN Standard 51935.

39. (previously presented) The graphite crucible according to claim 37, wherein the graphite has a permeability is greater than  $14 \text{ cm}^2/\text{s}$  when measured according to DIN Standard 51935.

40. (previously presented) The graphite crucible according to claim 37, wherein the graphite has a Hg porosity of at least 16.7%.